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AnaLogic Computers Kft. and Eutecus, Inc. See and Detect Instantly

AnaLogic Computers and its affiliate Eutecus deliver cost-effective image processing solutions – technology, components and applications – to private industry and governments by making sensing and processing faster, more intelligent and easier to use than today’s state-of-the-art methods.

AnaLogic and Eutecus use their proprietary Cellular Visual Technology (CVT) with unique hardware and software solutions mimicking human vision implemented with the most advanced computing technology.

CVT is based on principles of Cellular Neural Networking (CNN) and biologically inspired software algorithms, providing significant improvements over currently available technology approaches, and includes the use of massively parallel, multiple tightly coupled sensor-processor “cells” on a single IP block or chip, allowing much faster and robust processing of images than ever before.

The CVT offering combines universally applicable portable software libraries (InstantVision) with reconfigurable hardware reference designs (the Bi-i family of intelligent cameras) composed of a sensor platform and a modular control platform, easily customized to meet the needs of clients’ different applications. The basis of the reference designs, the Bi-i high-speed intelligent camera with InstantVision, won the Product of the Year Award at Vision 2003 in Stuttgart.

The founders and senior managers of AnaLogic and Eutecus are recognized worldwide as leaders in the application of CNN for improved vision processing with numerous refereed papers.

Products

IP Cores and architectures for FPGA and SoC (System on a Chip) designs based on the AnaLogic/Eutecus patented “C-TON” integrated sensor-processor chip architecture.

Reference designs for such IP cores which are based on variations of the Bi-i intelligent camera architecture.

Consulting and design services in multi processor core architectures and the software necessary to operate them – the future of computing architectures.

Core Competencies

AnaLogic possesses a wide range of core competencies in the area of for image processing:

- Understanding of vision processes, the use of analogs of the human eye to create new IP for “computer vision” and related new products
- Synthesis and adaptation of key vision software algorithms for multi-core architectures
- Know-how and ability to create and design practical massively parallel processing systems for multi-core architectures.

Proven Solutions

Completed customer projects include applications for high-speed textile inspection, wood surface inspection, and firearms training.

Cellular Visual Technology



Bi-V301
Intelligent Camera



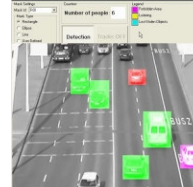
InstantVision ISE
Software to
See and Detect Instantly

IP Blocks
For FPGA and SoC

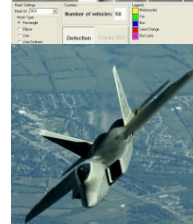
Sample Application Areas



Security
Video Analytics for Behavior
Analysis



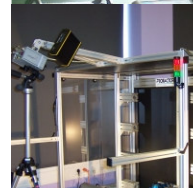
Traffic Monitoring
Video Analytics for
Traffic Monitoring



Government
Military Applications



Machine Vision
Manufacturing Quality
Control



Process Control
Replacing Traditional
Industrial Sensors